Access DB# 113932

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Art Unit: 1745 Ph Mail Box and Bldg/Room Loo	one Number 30 571 cation: RTM 6871	Examiner #: 7577 Date: 2 272. (28) Serial Number: 10 020685 Results Format Preferred (circle): PAPER)	7
If more than one search is s	submitted, please prio	ritize searches in order of need.	
Please provide a detailed statement of Include the elected species or structure.	of the search topic, and descures, keywords, synonyms, a terms that may have a specia	********************************* ribe as specifically as possible the subject matter to teronyms, and registry numbers, and combine with all meaning. Give examples or relevant citations, a , and abstract.	o be searched.
Title of Invention:	SEE AT	TACHED	LANCE.
Inventors (please provide full nam	nes):	1,	,
Earliest Priority Filing Date: _ *For Sequence Searches Only* Please	•	tt () 12/14/01 ion (parent, child, divisional, or issued patent number	s) along with the
appropriate serial number.		₄ p	
Oxazul	la.	not a polymer	
Oxazol	· ml	non pulymeric	
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STAFF USE ONLY Searcher:	Type of Search NA Sequence (#)	Vendors and cost where applical	******** ble
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Searcher Prep & Review Time:	Litigation	Lexis/NexisSequence Systems	
Clerical Prep Time:	Patent Family	WWW/Internet	
Online Time:	Other	Other (specify)	

PTO-1590 (8-01)

=> file reg FILE 'REGISTRY' ENTERED AT 10:03:58 ON 12 FEB 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS)

=> display history full 11-

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FILE 'HCAPLUS' ENTERED AT 09:33:08 ON 12 FEB 2004
             15 SEA NDZEBET ?/AU
L1
          17727 SEA ?OXAZOLIN?
L2
              1 SEA L1 AND L2
L3
                SEL L3 1 RN
     FILE 'REGISTRY' ENTERED AT 09:33:48 ON 12 FEB 2004
              4 SEA (1310-58-3/BI OR 30969-75-6/BI OR 7440-66-6/BI OR
L4
                95706-86-8/BI)
                D L4 1-4 IDE
                SEL L4 1 RN
              1 SEA 95706-86-8/BI
L5
     FILE 'HCA' ENTERED AT 09:34:56 ON 12 FEB 2004
              5 SEA L5
L6
     FILE 'REGISTRY' ENTERED AT 09:35:28 ON 12 FEB 2004
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               5 SEA ALKATERGE#
L7
     FILE 'HCA' ENTERED AT 09:36:01 ON 12 FEB 2004
              74 SEA L7 OR ALKATERGE#
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          423047 SEA ELECTROLY?
L9
          191082 SEA BATTERY OR BATTERIES OR (ELECTROCHEM? OR ELECTROLY?
                 OR GALVANI? OR PRIMARY OR SECONDARY OR WET OR DRY) (2A) (CE
L10
                 LL OR CELLS) OR WETCELL? OR DRYCELL?
                 QUE ELECTROD## OR ANOD## OR CATHOD##
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                 QUE (52 OR 72)/SC,SX
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               6 SEA L8 AND (L9 OR L10 OR L11 OR L12)
L13
      FILE 'LREGISTRY' ENTERED AT 09:41:14 ON 12 FEB 2004
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L14
      FILE 'REGISTRY' ENTERED AT 09:43:17 ON 12 FEB 2004
              23 S L14
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                 STR L14
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              14 SEA SSS SAM L16
 L17
                 STR L16
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7 SEA SSS SAM L18
L19
           2125 SEA SSS FUL L18
L20
                SAV L20 CAN685/A
              1 SEA L20 AND L4
L21
     FILE 'HCA' ENTERED AT 09:55:00 ON 12 FEB 2004
           1658 SEA L20
L22
         390344 SEA (SURFACT? OR BIOSURFACT? OR HYDROTROP? OR DETERG? OR
L23
                ABSTERG? OR (SURFACE(W)ACTIVE# OR WETTING#)(A)(AGENT? OR
                ADDITIVE? OR COMPOUND? OR COMPD# OR CMPD# OR CPD#) OR
                EMULSIFIER? OR DISPERSANT? OR SOAP?)/BI,AB
             25 SEA L22 AND (L9 OR L10 OR L11 OR L12)
L24
              4 SEA L24 AND L23
L25
         483471 SEA GEL OR GELS OR GELLED OR GELLING# OR GELATION?
L26
              3 SEA L24 AND L26
L27
     FILE 'REGISTRY' ENTERED AT 09:59:27 ON 12 FEB 2004
                E ZINC/CN
              1 SEA ZINC/CN
L28
                E POTASSIUM HYDROXIDE/CN
               1 S E3
L29
     FILE 'HCA' ENTERED AT 10:01:12 ON 12 FEB 2004
         552954 SEA L28 OR ZINC#
L30
         182289 SEA L29 OR (POTASSIUM# OR K) (W) HYDROXIDE# OR KOH OR
L31
                POTASH# OR CAUSTIC? OR ENCAUSTIC?
               4 SEA L24 AND L30
L32
               3 SEA L24 AND L31
L33
              18 SEA L6 OR L13 OR L25 OR L27 OR L32 OR L33
L34
              16 SEA L24 NOT L34
L35
     FILE 'REGISTRY' ENTERED AT 10:03:58 ON 12 FEB 2004
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NODE ATTRIBUTES:
CONNECT IS E1 RC AT 8
DEFAULT MLEVEL IS ATOM

GGCAT IS SAT AT 8
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M6 C AT 8

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE L20 2125 SEA FILE=REGISTRY SSS FUL L18

100.0% PROCESSED 188988 ITERATIONS SEARCH TIME: 00.00.04

2125 ANSWERS

=> file hca FILE 'HCA' ENTERED AT 10:04:25 ON 12 FEB 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> d 134 1-18 cbib abs hitstr hitind

L34 ANSWER 1 OF 18 HCA COPYRIGHT 2004 ACS on STN
139:24150 Oxazoline surfactant anode additive for
alkaline electrochemical cells. Ndzebet, Ernest
(USA). U.S. Pat. Appl. Publ. US 2003113623 A1 20030619, 6 pp.
(English). CODEN: USXXCO. APPLICATION: US 2001-20685 20011214.

AB According to the present invention an alk. electrochem.

cell can contain an anode having an anode
active material, an alk. electrolyte, a gelling
agent and an oxazoline surfactant additive. The invention
relates to an anode mix, to an anode contg. the
mix, and to an electrochem. cell contg. the
anode and to methods for making the anode mix, the
anode and the cell. Performance improvements can be
realized when the oxazoline surfactant is provided in the
anode, which can include increased operating voltage, good
high rate pulse capability, elimination of initial potential dip,
good shelf life and reduced sensitivity to open circuit rest.

1310-58-3, Potassium hydroxide (K(OH)), uses 7440-66-6, Zinc, uses

(oxazoline surfactant anode additive for alk.

electrochem. cells)

RN 1310-58-3 HCA

CN

Potassium hydroxide (K(OH)) (9CI) (CA INDEX NAME)

Intend Appl.

```
K--- OH
RN
     7440-66-6 HCA
     Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)
CN
Zn
     95706-86-8, Alkaterge T-IV
IT
        (oxazoline surfactant anode additive for alk.
        electrochem. cells)
     95706-86-8 HCA
RN
     Ethanol, 2,2'-[(2-heptadecyl-4(5H)-oxazolylidene)bis(methyleneoxy-
CN
     2,1-ethanediyloxy)]bis- (9CI) (CA INDEX NAME)
  HO-CH2-CH2-O-CH2-CH2-O-CH2
HO-CH2-CH2-O-CH2-CH2-O-CH2
     TCM H01M004-62
IC ·
     ICS H01M004-42
     429212000; 429229000
NCL
     52-2 (Electrochemical, Radiational, and Thermal Energy
CC
     Technology)
     Section cross-reference(s): 72
     battery oxazoline surfactant anode
ST
     additive
ΙT
     Primary batteries
        (Zn-air; oxazoline surfactant anode additive
        for alk. electrochem. cells)
     Battery anodes
IT
       Surfactants
         (oxazoline surfactant anode additive for alk.
        electrochem. cells)
     1310-58-3, Potassium hydroxide (K(OH)),
ΙT
     uses 7440-66-6, Zinc, uses
        (oxazoline surfactant anode additive for alk.
        electrochem. cells)
     30969-75-6, Oxazoline 95706-86-8, Alkaterge T-IV
IΤ
```

L34 ANSWER 2 OF 18 HCA COPYRIGHT 2004 ACS on STN 136:72256 Photoelectric transducer and photoelectric cell. Nakamura,

(oxazoline surfactant anode additive for alk.

electrochem. cells)

Yoshisada; Tadakuma, Yoshio; Kagawa, Okimasa (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2001357896 A2 20011226, 26 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2000-177211 20000613.

The title photoelec. transducer is made of microparticle semiconductor used for photoelec. cell, and its sensitivity is improved by color pigments. The prodn. of the transducer includes the process such as radiation by UV light of <400 nm, heating between 50-350°C, microwave radiation under reduced pressure of 0.05 MPa, exposing to high elec. or magnetic field, passing high elec. current, and exposing to 03 under an oxidn. or redn. atm. The device has high photoelec. conversion efficiency and high energy recovery.

IT 7440-66-6, Zinc, uses 321742-69-2

384347-26-6 384347-27-7

(photoelec. transducer and photoelec. cell)

RN 7440-66-6 HCA

CN Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)

Zn

RN 321742-69-2 HCA CN Oxazolium, 3-hexyl-2,4-dimethyl-, iodide (9CI) (CA INDEX NAME)

$$(CH_2)_5$$
-Me

• I-

RN 384347-26-6 HCA CN Oxazolium, 3-hexyl-2,4-dimethyl-, tetrafluoroborate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 384347-25-5 CMF C11 H20 N O

CM 2

CRN 14874-70-5

CMF B F4

CCI CCS.

RN 384347-27-7 HCA
CN Oxazolium, 3-hexyl-2,4-dimethyl-, salt with 1,1,1-trifluoro-N[(trifluoromethyl)sulfonyl]methanesulfonamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 384347-25-5 CMF C11 H20 N O

$$(CH_2)_5-Me$$
 N^+
 Me
 N^+
 Me

CM 2

CRN 98837-98-0 CMF C2 F6 N O4 S2

$$F_{3}C - S - N - S - CF_{3}$$

H01M014-00 IC ICM H01L031-04 52-1 (Electrochemical, Radiational, and Thermal Energy CC Technology) Section cross-reference(s): 73, 76 Photoelectric devices ITPigments, nonbiological Semiconductor materials Sol-gel processing (photoelec. transducer and photoelec. cell) 66-71-7D, 1,10-Phenanthroline, derivs. 119-91-5D, 2,2'-Biquinoline, derivs. 366-18-7D, 2,2'-Bipyridine, derivs. ΙT 574-93-6, Phthalocyanine 2,2':6',2''-Terpyridine, derivs. 1303-00-0, Gallium arsenide, uses 1306-23-6, Cadmium sulfide, uses 1306-24-7, Cadmium selenide, uses 1309-37-1, Ferric oxide, uses 1313-96-8, Niobia Zinc oxide, uses 1314-35-8, Tungsten oxide, uses 1314-87-0, Lead sulfide 1314-98-3, **Zinc** sulfide, uses 1332-29-2, Tin oxide 1345-07-9, Bismuth sulfide 1702-42-7 4386-78-1 6813-38-3D, [2,2'-Bipyridine]-4186-63-4 4,4'-dicarboxylic acid, derivs. 7429-90-5, Aluminum, uses 7440-22-4, Silver, uses 7440-32-6, 7440-06-4, Platinum, uses Titanium, uses 7440-36-0, Antimony, uses 7440-44-0, Carbon, uses 7440-50-8, Copper, uses 7440-56-4, Germanium, uses Gold, uses 7440-66-6, Zinc, uses 7440-74-6, 9004-35-7, Acetyl cellulose 7491-86-3D, derivs. Indium, uses 12047-27-7, 10291-06-2 9020-73-9, Polyethylene naphthalate 12049-50-2, Calcium titanate 12060-59-2, Barium titanate, uses 12063-98-8, Gallium phosphide, uses Strontium titanate 14354-67-7 13463-67-7, Titania, uses 13361-29-0 22398-80-7, Indium phosphide, 13311-31-4 15611-43-5 14609-54-2 14494-42-9 31301-31-2D, derivs. 25610-19-9, Polyethylene phthalate 51142-87-1, Sodium 37268-49-8, Niobiùm titanium oxide 35935-34-3 65039-08-9 65039-05-6 63174-72-1 56511-17-2 69110-33-4D, 2,2'-Bi-1,8-naphthyridine, derivs. titanate 98093-19-7 98743-25-0, Copper indium 68714-21-6 93627-55-5 86042-82-2 108410-41-9

100149-66-4

Copper indium sulfide 199855-86-2 210230-42-5

139068-93-2

174899-82-2

99021-92-8

121091-31-4

174501-65-6

selenide

111051-46-8

150774-86-0

106240-35-1

143314-16-3

174899-83-3

148353-34-8

216018-58-5D,

177715-14-9,

```
223437-11-4
                                                      258279-35-5
                         219947-97-4
derivs. 219832-57-2
                                            303113-36-2D, derivs.
                             288627-94-1
              286453-46-1
258279-38-8
                                            321881-76-9
                             321742-71-6
              321742-70-5
321742-69-2
                                                           321881-92-9
                                            321881-82-7
                             321881-80-5
              321881-79-2
321881-77-0
                                                           324574-99-4
                                            324574-95-0
                             324574-91-6
              321881-94-1
321881-94-1
                                                           345984-11-4
                                            331717-62-5
                             324757-04-2
              324575-10-2
324575-08-8
                                                           384347-08-4
                                            384347-07-3
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               384347-05-1
384347-04-0
                                                           384347-15-3
                                            384347-13-1
                             384347-12-0
               384347-10-8
384347-09-5
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                                            384347-21-1
               384347-18-6
                             384347-19-7
384347-16-4
               384347-24-4 384347-26-6 384347-27-7
384347-23-3
                                                           384347-34-6
                                            384347-33-5
                             384347-32-4
               384347-30-2
384347-29-9
                                                           384347-41-5
                                            384347-39-1
                             384347-38-0
               384347-36-8
384347-35-7
                                                           384347-49-3
                                            384347-47-1
                             384347-46-0
               384347-45-9
384347-44-8
                                                           384347-55-1
                                            384347-54-0
                             384347-53-9
               384347-51-7
384347-50-6
                                                           384347-61-9
                                            384347-60-8
                             384347-59-5
               384347-58-4
384347-57-3
                                            384347-66-4
                                                           384347-67-5
                              384347-65-3
               384347-64-2
384347-62-0
                                                           384347-72-2
                                            384347-71-1
               384347-69-7
                              384347-70-0
384347-68-6
                                                           384347-78-8
                                             384347-76-6
                              384347-75-5
               384347-74-4
384347-73-3
                                                           384347-84-6
                                             384347-83-5
                              384347-82-4
               384347-80-2
384347-79-9
               384347-86-8
384347-85-7
    (photoelec. transducer and photoelec. cell)
```

ANSWER 3 OF 18 HCA COPYRIGHT 2004 ACS on STN

132:337421 Cyclic carbamates for extraction of precious metals. Helin; Wu, Rongcheng; Yao, Wen (Beijing General Institute of Mining & Metallurgy Research, Peop. Rep. China). Faming Zhuanli Shenqing Gongkai Shuomingshu CN 1206048 A 19990127, 5 pp. (Chinese). APPLICATION: CN 1997-115115 19970723. CODEN: CNXXEV.

The cyclic carbamates are where R1, R2, R3 = H, or C1-20 alkyl. extg. reagents can be used for extn. of precious metal (Ag, Pt, Pd) AB ions or complex compds. from acidic aq. soln. in the presence (or absence) of a diluent, and the extd. precious metal ions or complexes can be readily stripped by redn. or electrolysis The extg. reagents can and thus to regenerate the extg. reagents. be used in combination with conventional extg. reagents for precious metals such as Me iso-Bu ketone, dialkylthioether, sulfoxide, cyclic carbonate, etc. The extg. reagents are used at 5-1,000 vol.% of the aq. phase, preferably, 50-200 vol.%. The reducing agents for stripping and regenerating the extg. reagents are Zn, Fe, formaldehyde, and Fe2+.

7440-66-6, Zinc, reactions 268202-81-9 ΙΤ

(cyclic carbamates for extn. of precious metals)

7440-66-6 HCA RN

Zinc (7CI, 8CI, 9CI) (CA INDEX NAME) CN

RN 268202-81-9 HCA CN 2-Oxazolidinone, 4-decyl-3-propyl- (9CI) (CA INDEX NAME)

$$n-Pr$$
 $(CH_2)9-Me$

IC ICM C22B003-36

CC 54-2 (Extractive Metallurgy)

50-00-0, Formaldehyde, reactions 108-10-1, Methyl isobutyl ketone 120-62-7, Sulfoxide 7439-89-6, Iron, reactions 7440-66-6

, Zinc, reactions 15438-31-0, Iron, ion (Fe2+), reactions 51667-26-6, Oxazolidinone 57272-09-0 268202-80-8

268202-81-9

(cyclic carbamates for extn. of precious metals)

L34 ANSWER 4 OF 18 HCA COPYRIGHT 2004 ACS on STN

132:154439 Gel electrolytes, gel
electrolytes for photoelectrochemical cells, and
the cells. Takizawa, Hiroo (Fuji Photo Film Co., Ltd., Japan).
Jpn. Kokai Tokkyo Koho JP 2000058140 A2 20000225, 39 pp.
(Japanese). CODEN: JKXXAF. APPLICATION: JP 1998-239481 19980811.

GΙ

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- The gel electrolytes contain $\geq 50\%$ electrolyte I (Z forms a 5- or 6-membered ring arom. cation with N, R1 = alkyl or alkenyl group, p = 1 or 3) having mol. wt. ≤ 1000 , preferably II (R2 = substituents, q ≥ 2) or III (R3 = substituents, E = 0, S, or NR4, R4 = substituents, m = 0-3, and R3 are not necessarily all the same for m ≥ 2).

IT 258273-68-6 (gel electrolytes for photoelectrochem. cells)

RN 258273-68-6 HCA CN Oxazolium, 2,4-dimethyl-3-octyl-, iodide (9CI) (CA INDEX NAME)

$$(CH_2)$$
 7 - Me

N+

Me

N+

Ne

• I -

IC ICM H01M014-00
ICS H01L031-04
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)

photoelectrochem cell gel electrolyte;
pyridinium salt photoelectrochem cell gel
electrolyte; arom ammonium salt photoelectrochem
cell gel electrolyte

IT Electrolytes

Photoelectrochemical cells
(gelling agents for electrolytes in photoelectrochem. cells)

TT 75-05-8, Acetonitrile, uses 4743-28-6 10123-62-3 19836-78-3 (compns. of gel electrolytes for photoelectrochem. cells)

13463-67-7, Titania, uses
(electrodes for photoelectrochem cells with
gel electrolytes)

32353-64-3 65039-05-6 258273-67-5 **258273-68-6**(gel electrolytes for photoelectrochem.
cells)

TELIS)
148417-29-2 148497-17-0 182912-85-2 183552-29-6 212840-68-1 258273-69-7

(gelling agents for electrolytes in photoelectrochem. cells)

IT 14238-53-0 78338-26-8 80530-93-4 143169-03-3 219727-04-5 220870-47-3 230307-81-0 233269-27-7 233584-50-4 258273-70-0 258273-71-1

(pigment sensitized electrodes for photoelectrochem cells with gel electrolytes)

L34 ANSWER 5 OF 18 HCA COPYRIGHT 2004 ACS on STN

129:317933 Low-residue macroemulsion cleaner with perchloroethylene.

Mainz, Eric L.; Nyberg, Janice M. (Vulcan Materials Co., USA). U.S.

US 5827809 A 19981027, 6 pp. (English). CODEN: USXXAM.

APPLICATION: US 1996-730363 19961015.

A stable oil-in-water macroemulsion cleaner comprises perchloroethylene (I), water, ethanol and/or Et acetate, and a AΒ nonionic surfactant, and the cleaner has low toxicity, rapid evapn. rate and leaves low residue after use. The cleaner removes greasy and oily soils from soiled surfaces, and is nonflammable as an aerosol spray with appropriate propellant formulations. Thus, a cleaner contained I 20.01, water 12.16, acetone 8.00, Tween 80 0.37, and Surfynol 61 0.02 g.

95706-86-8, Alkaterge T-IV (Alkaterge T-IV and Alkaterge AP 1136; low-residue macroemulsion ΙT cleaner contg. perchloroethylene and ethanol and Et acetate and nonionic surfactants and water)

95706-86-8 HCA RN

Ethanol, 2,2'-[(2-heptadecyl-4(5H)-oxazolylidene)bis(methyleneoxy-CN 2,1-ethanediyloxy)]bis- (9CI) (CA INDEX NAME)

ICM C11D001-72 IC ICS C11D003-24; C11D003-20; B08B003-08

510365000 NCL

45-5 (Industrial Organic Chemicals, Leather, Fats, and Waxes) CC Section cross-reference(s): 55

95706-86-8, Alkaterge T-IV ΙT (Alkaterge T-IV and Alkaterge AP 1136; low-residue macroemulsion cleaner contg. perchloroethylene and ethanol and Et acetate and nonionic surfactants and water)

ANSWER 6 OF 18 HCA COPYRIGHT 2004 ACS on STN

121:208055 Performance of water-in-oil emulsifiers: prediction based on interfacial and thermodynamic properties. Bhattacharyya, D. N.; Kelkar, R. Y.; Almeida, M. R.; Das, A. K.; Chikhale, S. V. (Thane, Tenside, Surfactants, Detergents, 31(4), 260-4 (English) 1994. CODEN: TSDEES. ISSN: 0932-3414.

The interfacial and thermodn. properties of one cationic and two nonionic emulsifiers in various oil/water systems were investigated. ABThe effectiveness of the emulsifiers in the formation and stabilization of water-in-oil (W/O) emulsions were compared. Using distd. water as the aq. phase and a blend of paraffin oil and diesel oil (50:50, wt./wt.) as the oil phase, the interfacial adsorption of the three emulsifiers was examd. at three different temps., 25, 40 and 70°. The figures for various thermodn. parameters like change in std. free energy $(\Delta \text{S}^{\,\circ})$ - both for

micellization and interfacial adsorption were calcd. W/O emulsions were prepd. with these emulsifiers, using an aq. phase consisting of a soln. of various electrolytes and the stability of the emulsions was compared. The emulsifying properties of the surfactants and the emulsion stabilization were explained in terms of interfacial and thermodn. properties.

75499-49-9, Alkaterge ${f T}$ IT(emulsifier; interfacial and thermodn. properties of nonionic and cationic surfactants and their emulsifying properties for oil-water systems)

75499-49-9 HCA 4,4(5H)-Oxazoledimethanol, 2-(8Z)-8-heptadecenyl- (9CI) (CA INDEX RNCN NAME)

Double bond geometry as shown.

HO N (CH₂) 7
$$\underline{Z}$$
 (CH₂) 7 Me

46-3 (Surface Active Agents and Detergents) CC

Section cross-reference(s): 66

9004-99-3, Polyethylene glycol 1338-43-8, Sorbitan monooleate ΙT stearate 75499-49-9, Alkaterge T (emulsifier; interfacial and thermodn. properties of nonionic and cationic surfactants and their emulsifying properties for oil-water systems)

ANSWER 7 OF 18 HCA COPYRIGHT 2004 ACS on STN

121:182783 Corrosion inhibitor system for an intermediate heat transfer Emerich, Dwight E.; Fix, Kathleen A. (Ashchem IP, USA). Can. Pat. Appl. CA 2104519 AA 19940303, 13 pp. (English). APPLICATION: CA 1993-2104519 19930820. PRIORITY: US CPXXEB. 1992-939056 19920902.

The improved corrosion inhibitor system includes an oxazoline for an intermediate heat transfer medium for an indirect cooling heat AB transfer assembly and is introduced in an amt. of 0.01-5.0 wt.%.

95706-86-8 ΙT

(corrosion inhibitor, for heat transfer medium)

95706-86-8 HCA RN

Ethanol, 2,2'-[(2-heptadecyl-4(5H)-oxazolylidene)bis(methyleneoxy-CN2,1-ethanediyloxy)]bis- (9CI) (CA INDEX NAME)

IC ICM C23F011-10 ICS C09K005-02

CC 48-5 (Unit Operations and Processes)
Section cross-reference(s): 55

IT 14466-50-3 24448-04-2 30969-75-6D, Oxazoline, derivs.

95706-86-8

(corrosion inhibitor, for heat transfer medium)

L34 ANSWER 8 OF 18 HCA COPYRIGHT 2004 ACS on STN

- 119:205268 Thermoplastic polyester elastomers containing oxazolines, their manufacture and use. Plitzko, Klaus Dieter; McKee, Graham Edmund (BASF A.-G., Germany). Ger. Offen. DE 4129980 A1 19930311, 19 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1991-4129980 19910910.
- Mixts. of a thermoplastic polyester elastomer, e.g., 1,4-butanediol-di-Me terephthalate-polytetramethylene glycol copolymer, and an oxazoline such as Alkaterge E, Alkaterge T, or 2,2'-m-phenylenebis(2-oxazoline) show good melt processability and are resistant to hydrolysis and thermal decompn.

RN 95706-86-8 HCA

CN Ethanol, 2,2'-[(2-heptadecyl-4(5H)-oxazolylidene)bis(methyleneoxy-2,1-ethanediyloxy)]bis- (9CI) (CA INDEX NAME)

IC ICM C08L067-02

ICS C08K005-353; D01F006-92

ICA C08J005-00; C08J005-18; H01B003-30

CC 39-9 (Synthetic Elastomers and Natural Rubber)

TT 7426-75-7, 2,2'-(1,4-Phenylene)bis(2-oxazoline) 34052-90-9, 2,2'-(1,3-Phenylene)bis(2-oxazoline) 75499-49-9, Alkaterge T 88543-32-2, Alkaterge E 95706-86-8 (polyester-polyoxyalkylene elastomers contg., for resistance to

heat and hydrolysis)

HCA COPYRIGHT 2004 ACS on STN ANSWER 9 OF 18 L34

112:139644 Electroorganic chemistry. 120. New patterns of anodic oxidation of amides. Synthesis of α -amino aldehyde acetals and pyrrolidines from amines. Shono, Tatsuya; Matsumura, Yoshihiro; Katoh, Susumu; Takeuchi, Kei; Sasaki, Katsushi; Kamada, Tohru; Shimizu, Rie (Fac. Eng., Kyoto Univ., Kyoto, 606, Japan). Journal of the American Chemical Society, 112(6), 2368-72 (English) 1990. CODEN: JACSAT. ISSN: 0002-7863. OTHER SOURCES: CASREACT 112:139644.

Anodic oxidn. of N-alkyltosylamides in methanol contg. KX (X = Br, I) gave two types of products. α -(Tosylamino) AΒ aldehyde acetals I and pyrrolidine derivs. II, and each of the products could selectively be formed by modifying the reaction conditions when the alkyl group on the nitrogen of the tosylamides was not branched at its α -position. Namely, anodic oxidn. of N-(α -branched alkyl)tosylamides III in methanol contg. NaOMe and KI at -10 \circ followed by further anodic oxidn. at +25 ° afforded I in good yields; that of III in a two-layer system consisting of cyclohexane and water contg. KOH and KBr under heating yielded solely II. On the other hand, N-(α -branched alkyl) tosylamides gave always Two types of reaction routes leading to each of the products were proposed. A naturally recurring, alkaloid, sulfamine, was prepd. from L-lysine using the anodic method.

124920-28-1P 124920-29-2P ΙT

(prepn. and conversion of, to acetyl deriv.)

124920-28-1 HCA

Oxazolidine, 2-heptyl-3-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX RNCNNAME)

Me
$$0 = S = 0$$

$$Me - (CH2) 6 N$$

124920-29-2 HCA Oxazolidine, 3-[(4-methylphenyl)sulfonyl]-2-octyl- (9CI) (CA INDEX RNCNNAME)

$$O = S = O$$

$$Me - (CH2) 7 N$$

CC 31-5 (Alkaloids)

Section cross-reference(s): 22, 27

ST anodic oxidn amides; amino aldehyde acetal; pyrrolidine

IT Amides, reactions

(N-tosyl, anodic oxidn. of, mechanism of)

IT 80-39-7 1133-12-6 1143-01-7 1150-31-8 1907-65-9 65588-63-8 81330-00-9 87974-86-5 106011-68-1 124920-13-4

(anodic oxidn. of)

IT 124920-26-9P 124920-27-0P

(prepn. and anodic oxidn. of)

IT 124920-28-1P 124920-29-2P

(prepn. and conversion of, to acetyl deriv.)

L34 ANSWER 10 OF 18 HCA COPYRIGHT 2004 ACS on STN

111:141341 Multi-pronged in-situ characterization of adsorbed

surfactant. Somasundaran, P.; Kunjappu, Joy T. (Langmuir
Cent. Colloids Interfaces, Columbia Univ., New York, NY, 10027,
USA). Innovations Mater. Process. Using Aqueous, Colloid Surf.

Chem., Proc. Top. Symp., 31-51. Editor(s): Doyle, Fiona M. Miner.,
Chem., Mater. Soc.: Warrendale, Pa. (English) 1989. CODEN: 56NSAM.

Absorption, emission, magnetic resonance, and scattering spectroscopic techniques (fluorescence, ESR, excited state resonance Raman, etc.) along with adsorption, flotation, flocculation, and electrokinetic methods were used to gather information about the microscopic properties of the adsorbed surfactant and polymeric films. The interaction of solids with surfactants and polymers (ethoxylated and electrolyte types) individually and in mixts. were also examd. Aside from unraveling the microstructure and evolution of the adsorbed films, new probing techniques are identified as an off-shoot of these studies.

IT 29545-47-9, 12-Doxylstearic acid 29545-48-0,

5-Doxylstearic acid

(ESR spin probe, in surfactant adsorption and

aggregation study)

29545-47-9 HCA RN

3-Oxazolidinyloxy, 2-(10-carboxydecyl)-2-hexyl-4,4-dimethyl- (8CI, CN(CA INDEX NAME)

Me
$$(CH_2)_5$$
-Me $(CH_2)_{10}$ -CO₂H

29545-48-0 HCA RN

3-Oxazolidinyloxy, 2-(3-carboxypropyl)-4,4-dimethyl-2-tridecyl-CN (8CI, 9CI) (CA INDEX NAME)

Me
$$\stackrel{O}{\mid}$$
 (CH₂)₃-CO₂H
Me $\stackrel{O}{\mid}$ (CH₂)₁₂-Me

66-4 (Surface Chemistry and Colloids) CC Section cross-reference(s): 54, 73, 77

luminescence spectrometry colloid adsorbed surfactant; flocculation surfactant adsorption ESR; ESR flocculation; STpolymer surfactant solid colloid interaction

Adsorption IT

(of surfactants, on colloid particles, spectral methods for study of)

Electron spin resonance spectrometry TΤ Luminescence spectrometry

Raman spectrometry

(surfactant adsorption on colloidal solid studied by)

29545-47-9, 12-Doxylstearic acid 29545-48-0, IT5-Doxylstearic acid 53034-38-1, 16-Doxylstearic acid (ESR spin probe, in surfactant adsorption and

aggregation study)

1344-28-1, Alumina, properties IT (colloid dispersion, surfactant adsorption on, spectral methods in study of)

129-00-0, Pyrene, uses and miscellaneous ΙT (fluorescence probe, in surfactant adsorption and aggregation study)

14564-86-4 ΙT

(fluorescence probe, in **surfactant** adsorption and aggregation study)

- 14323-06-9, Tris(2,2'-bipyridine)ruthenium(2+) dichloride (phosphorescence probe, in surfactant adsorption and aggregation study)
- L34 ANSWER 11 OF 18 HCA COPYRIGHT 2004 ACS on STN
- 110:25762 Adsorption behavior of surfactants: critical micelle concentration and adsorption parameters of some conionic/cationic surfactants and factors affecting them. Bhattacharyya, D. N.; Kelkar, R. Y.; Chikhale, S. V. (Maharashtra, Italy). Tenside, Surfactants, Detergents, 25(5), 298-301 (English) 1988. CODEN: TSDEES. ISSN: 0932-3414.
- The crit. micelle concn., interfacial tension at this value, and Gibbs' adsorption parameters for sorbitan monooleate,

 Alkaterge T, and polyethylene glycol 12-hydroxystearate were detd. The effects of temp., electrolyte concn., and oil polarity on these parameters were correlated with the emulsifying properties of these surfactants. The nature of the electrolyte/ionic concn. of the aq. phase as well as the polarity of the oil phase had a significant influence of the interfacial properties and adsorption behavior of the emulsifying agents, while the temp. effect was less marked.
- 75499-49-9, Alkaterge T (adsorption and interfacial properties of, emulsifying behavior in relation to)
- RN 75499-49-9 HCA CN 4,4(5H)-Oxazoledimethanol, 2-(8Z)-8-heptadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

HO
$$\begin{array}{c|c}
\text{N} & \text{(CH2) 7} \\
\hline
\text{N} & \text{(CH2) 7}
\end{array}$$
Me

- CC 46-4 (Surface Active Agents and Detergents)
- 1338-43-8, Sorbitan monooleate 61909-81-7 **75499-49-9**,

Alkaterge T
(adsorption and interfacial properties of, emulsifying behavior in relation to)

L34 ANSWER 12 OF 18 HCA COPYRIGHT 2004 ACS on STN 109:152957 Soluble oil concentrate and emulsifier system used therein.

Durr, Albert M., Jr.; Hardy, Bryant J. (Conoco, Inc., USA). U.S. US 4758374 A 19880719, 5 pp. (English). CODEN: USXXAM. APPLICATION: US 1987-26509 19870317.

A sol. oil conc. which forms stable emulsions with water (e.g., AB useful as hydraulic fluids for coal-mine roof jacks) is prepd. by combining an emulsifier system contg. (a) an oxazoline deriv. and an amide and (b) an ether sulfate ammonium salt surfactant with a base The oxazoline deriv. and amide contain straight or branched chain alc. and fatty acid substituents. The ether sulfate ammonium salt contains a mixt. of alkyl groups. Thus, a formulation contg. paraffin base oil 81.5, Penreco Morco sol. oil base 17.0, Alkaterge T-IV (oxazoline derivs.) 0.5, and Stepasol CA 207 (ether sulfate ammonium salt) 1.0 wt.% was subjected to the skin test, rust test, and emulsion sepn. test, resulting in no skin formation, passing both rust test (at 3% and 5% soln.), and retaining 69% emulsion at 158°F after 1 wk.

95706-86-8 IT

(aq. emulsions contg. ether sulfate ammonium salt and, for coal-mine roof jacks)

95706-86-8 HCA RN

Ethanol, 2,2'-[(2-heptadecyl-4(5H)-oxazolylidene)bis(methyleneoxy-CN2,1-ethanediyloxy)]bis- (9CI) (CA INDEX NAME)

ICM B01J013-00 TC

252312000 NCL

51-8 (Fossil Fuels, Derivatives, and Related Products) CC

95706-86-8 ΙT

(aq. emulsions contg. ether sulfate ammonium salt and, for coal-mine roof jacks)

ANSWER 13 OF 18 HCA COPYRIGHT 2004 ACS on STN L34

101:131739 Cationic epoxy resin ester. Paar, Willibald; Hoenig, Helmut (Vianova Kunstharz A.-G., Austria). Ger. Offen. DE 3337154 A1 19840510, 22 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1983-3337154 19831012. PRIORITY: AT 1982-4035 19821105.

The esters, useful as binders for cathodic coatings, are AΒ manufd. by reaction of epoxy resins with a combination of half-esters, Et2NH and (or) dimethylaminopropylamine (I), and carboxy group-contg. reaction products of diacid anhydrides and N-substituted oxazolidines or N-substituted tetrahydrooxazines. Thus, hexylamine [111-26-2] 101, allyl glycidyl ether [106-92-3] 114, and PhCHO [100-52-7] 106 parts were reacted 1 h at 110°

to give an oxazolidine deriv., which was reacted (303 parts with 114 parts glutaric anhydride at 80° to give an adduct (A). Epoxy resin 900, A 542, mono-Me phthalate 144, Et2NH 22, and I 31 g were heated at 75-80° in ethylene glycol mono-Et ether until the acid no. decreased to <3 mg KOH/g to give a product with amine value 75 KOH/g, which could be made sol. in water by heating with HOAc for 3 h at 50-70°.

92001-97-3DP, reaction products with diacid anhydrides and half-esters and epoxy resins 92001-99-5DP, reaction products with diacid anhydrides and half-esters and epoxy resins (prepn. of)

RN 92001-97-3 HCA

CN Oxazolidine, 3-hexyl-2-phenyl-5-[(2-propenyloxy)methyl]- (9CI) (CA INDEX NAME)

RN 92001-99-5 HCA CN Oxazolidine, 3-dodecyl-5-[(2-propenyloxy)methyl]- (9CI) (CA INDEX NAME)

(CH₂)₁₁-Me

N

$$O-CH_2-O-CH_2-CH=CH_2$$

IC C08G059-14; C08G059-16; C08G059-50

CC 37-3 (Plastics Manufacture and Processing)

Section cross-reference(s): 42

cationic epoxy resin ester; cathodic coating binder epoxy ester; oxazolidine contg epoxy resin ester; hydrooxazine contg epoxy resin ester; aminated epoxy resin ester; phthalate epoxy resin cationic; glutaric epoxy resin cationic

IT Coating materials

(cathodic, binders for, cationic epoxy resin esters for, manuf. of)

IT 85-42-7DP, reaction products with cyclic tertiary amines and epoxy

85-43-8DP, reaction products with cyclic resins and half-esters tertiary amines and epoxy resins and half-esters 85-44-9DP, reaction products with cyclic tertiary amines and epoxy resins and 100-52-7DP, reaction products with butylamine and half-esters 108-30-5DP, reaction products with cyclic tertiary Cardura E 108-31-6DP, reaction amines and epoxy resins and half-esters products with cyclic tertiary amines and epoxy resins and 108-55-4DP, reaction products with cyclic tertiary half-esters 109-55-7DP, reaction amines and epoxy resins and half-esters products with epoxy resins and diacid anhydrides and cyclic tertiary 109-73-9DP, reaction products with benzaldehyde and Cardura 109-89-7DP, reaction products with epoxy resins and diacid 131-70-4DP, reaction anhydrides and cyclic tertiary amines products with diacid anhydrides and cyclic tertiary amines and epoxy 925-21-3DP, reaction products with diacid anhydrides and 1070-34-4DP, reaction cyclic tertiary amines and epoxy resins products with diacid anhydrides and cyclic tertiary amines and epoxy 1630-62-2DP, reaction products with diacid anhydrides and 1630-73-5DP, reaction products with half-esters and epoxy resins diacid anhydrides and half-esters and epoxy resins 4376-18-5DP, reaction products with diacid anhydrides and cyclic tertiary amines and epoxy resins 4376-20-9DP, reaction products with diacid anhydrides and cyclic tertiary amines and epoxy resins 7423-42-9DP, reaction products with diacid anhydrides and cyclic tertiary amines and epoxy resins 19201-36-6DP, reaction products with diacid anhydrides and cyclic tertiary amines and epoxy resins 20882-04-6DP, reaction products with diacid anhydrides and cyclic 56124-48-2DP, reaction products tertiary amines and epoxy resins with diacid anhydrides and cyclic tertiary amines and epoxy resins 64680-77-9DP, reaction products with diacid anhydrides and cyclic 68186-31-2DP, reaction products tertiary amines and epoxy resins with diacid anhydrides and cyclic tertiary amines and epoxy resins 70559-03-4DP, reaction products with diacid anhydrides and cyclic 92001-93-9DP, reaction products tertiary amines and epoxy resins with diacid anhydrides and half-esters and epoxy resins 92001-94-0DP, reaction products with diacid anhydrides and 92001-95-1DP, reaction products with half-esters and epoxy resins diacid anhydrides and half-esters and epoxy resins 92001-96-2DP, reaction products with diacid anhydrides and half-esters and epoxy resins 92001-97-3DP, reaction products with diacid 92001-98-4DP, reaction anhydrides and half-esters and epoxy resins products with diacid anhydrides and half-esters and epoxy resins 92001-99-5DP, reaction products with diacid anhydrides and 92002-00-1DP, reaction products with half-esters and epoxy resins diacid anhydrides and half-esters and epoxy resins 92002-01-2DP, reaction products with diacid anhydrides and half-esters and epoxy 92004-69-8DP, reaction products with diacid anhydrides and 92004-70-1DP, reaction products with half-esters and epoxy resins

diacid anhydrides and half-esters and epoxy resins 92004-71-2DP, reaction products with diacid anhydrides and half-esters and epoxy resins 92004-72-3DP, reaction products with diacid anhydrides and half-esters and epoxy resins 92004-73-4DP, reaction products with diacid anhydrides and half-esters and epoxy resins 92049-43-9DP, reaction products with diacid anhydrides and half-esters and epoxy resins

(prepn. of)

L34 ANSWER 14 OF 18 HCA COPYRIGHT 2004 ACS on STN
92:60287 Process for drying water-wet porous materials. (du Pont de
Nemours, E. I., and Co., USA). Brit. GB 1548985 19790718, 15 pp.
(English). CODEN: BRXXAA. APPLICATION: GB 1976-21873 19760526.
AB Water-wet porous materials, e.g. textile fibers or lead-lead oxide

battery electrodes, were dried with low energy consumption by forcing through the material a water-immiscible org. soln. of a surfactant with interfacial tension vs. H2O of <10 dyne/cm, d. >1.25 g/cm3, and a pos. advancing tension vs. Pt. Thus, a 2-in.-wide piece of poly(ethylene terephthalate) double-knit fabric contg. 55% water was passed at 2 yd/min through a displacement bath of Cl2FCCF2Cl [76-13-1] contg. 0.064% partially unsatd. 1-(2-hydroxyethyl)-2-heptadecyl-2-imidazoline oleate surfactant 0.5 in. above 5 successive spray tubes at right angles to the direction of travel, each tube having 16 0.02-in.-diam. jets. The jet pressure was sufficient to force some displacement liquor through the fabric. The final water content was 1.5%.

IT 72537-32-7

(surfactants, drying agents, with haloalkanes, for textile fibers)

RN 72537-32-7 HCA

CN Oxazole, 2-undecyl- (9CI) (CA INDEX NAME)

$$(CH_2)_{10} - Me$$

IC B01D012-00

CC 39-9 (Textiles)

Section cross-reference(s): 52

fiber textile drying agent; haloalkane surfactant drying textile; water removal textile fiber; displacement water porous material; lead battery electrode drying

IT Surfactants (drying agents contg. haloalkanes and, for textile fibers)

IT Hair

Textiles

Acrylic fibers, uses and miscellaneous
Polyamide fibers, uses and miscellaneous
Polyester fibers, uses and miscellaneous
(drying of, by perhaloalkanes contg. surfactants)

Quaternary ammonium compounds, compounds
(polypropylene glycol derivs., surfactants, drying agents, with haloalkanes, for textile fibers)

IT **Electrodes**(battery, lead-lead oxide, drying of porous, by perhaloalkanes contg. surfactants)

IT Alkanes, uses and miscellaneous (halo, drying agents contg. surfactants and, for textile fibers)

TT 71-55-6 75-69-4 76-13-1 79-01-6, uses and miscellaneous 127-18-4, uses and miscellaneous (drying agents, with surfactants, for textile fibers)

1335-25-7 7439-92-1, uses and miscellaneous (electrodes, for batteries, drying of, by perhaloalkanes contg. surfactants)

102-60-3D, dioleated and quaternized 107-15-3D, unsatd. C17 derivs., stearates 124-30-1 140-72-7 143-27-1 2136-72-3 2673-22-5 9003-11-6 15567-28-9 16057-43-5 17701-04-1 25155-19-5D, alkyl derivs., sodium salts 25322-69-4D, quaternary ammonium derivs. 72537-30-5D, partially unsatd. 72537-31-6 72537-32-7

<---->

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- ANSWER 14 OF 18 HCA COPYRIGHT 2004 ACS on STN
- 92:60287 Process for drying water-wet porous materials. (du Pont de Nemours, E. I., and Co., USA). Brit. GB 1548985 19790718, 15 pp. (English). CODEN: BRXXAA. APPLICATION: GB 1976-21873 19760526.
- Water-wet porous materials, e.g. textile fibers or lead-lead oxide AΒ battery electrodes, were dried with low energy consumption by forcing through the material a water-immiscible org. soln. of a surfactant with interfacial tension vs. H2O of <10 dyne/cm, d. >1.25 g/cm3, and a pos. advancing tension vs. Pt. Thus, a 2-in.-wide piece of poly(ethylene terephthalate) double-knit fabric contg. 55% water was passed at 2 yd/min through a displacement bath of Cl2FCCF2Cl [76-13-1] contg. 0.064% partially unsatd. 1-(2-hydroxyethyl)-2-heptadecyl-2-imidazoline oleate surfactant 0.5 in. above 5 successive spray tubes at right angles to the direction of travel, each tube having 16 0.02-in.-diam. jets. The jet pressure was sufficient to force some displacement liquor through the fabric. The final water content was 1.5%.
- 72537-32-7 ΙT

(surfactants, drying agents, with haloalkanes, for textile fibers)

- 72537-32-7 HCA RN
- Oxazole, 2-undecyl- (9CI) (CA INDEX NAME) CN

```
N (CH<sub>2</sub>)<sub>10</sub>-Me
```

IC B01D012-00

CC 39-9 (Textiles)

Section cross-reference(s): 52

fiber textile drying agent; haloalkane surfactant drying textile; water removal textile fiber; displacement water porous material; lead battery electrode drying

IT Surfactants

(drying agents contg. haloalkanes and, for textile fibers)

IT Hair

Textiles

Acrylic fibers, uses and miscellaneous

Polyamide fibers, uses and miscellaneous

Polyester fibers, uses and miscellaneous

(drying of, by perhaloalkanes contg. surfactants)

IT Drying agents

(perhaloalkanes contg. surfactants, for textile fibers)

Quaternary ammonium compounds, compounds (polypropylene glycol derivs., surfactants, drying agents, with haloalkanes, for textile fibers)

IT Electrodes

(battery, lead-lead oxide, drying of porous, by perhaloalkanes contg. surfactants)

IT Alkanes, uses and miscellaneous

(halo, drying agents contg. surfactants and, for

textile fibers)

IT 71-55-6 75-69-4 76-13-1 79-01-6, uses and miscellaneous 127-18-4, uses and miscellaneous

(drying agents, with surfactants, for textile fibers)

1335-25-7 7439-92-1, uses and miscellaneous

(electrodes, for batteries, drying of, by

perhaloalkanes contg. surfactants)

102-60-3D, dioleated and quaternized 107-15-3D, unsatd. C17 ΙT 143-27-1 2136-72-3 140-72-7 124-30-1 derivs., stearates 17701-04-1 16057-43**-**5 15567-28-9 9003-11-6 25155-19-5D, alkyl derivs., sodium salts 25322-69-4D, quaternary ammonium derivs. 72537-30-5D, partially unsatd. 72537-31-6 72537-32-7

(surfactants, drying agents, with haloalkanes, for textile fibers)

L34 ANSWER 15 OF 18 HCA COPYRIGHT 2004 ACS on STN 75:157645 Separators for secondary batteries. Langer, Alois;

Scala, Luciano C. (Westinghouse Electric Corp.). Ger. Offen. DE 2111796 19711007, 22 pp. (German). CODEN: GWXXBX. PRIORITY: US 19700312.

- (Séparators) for alk. AgO/Zn secondary batteries, AB impermeable towards Ag ions, on which Ag does not deposit, and on which dendrites do not form, consisted of a polypropylene support coated with polysulfone P 1700 contg. inorg. filler parts in its Thus, 20-50 mesh particle size ZrO2 720, polysulfone P 1700 and AcNMe2 1840, and substituted oxazoline wetting agent (Alkaterge E) 9.6 g were mixed for 5 days to give a homogeneous bath. A 30.5 cm wide and 0.08:9 mm thick polypropylene fiber fleece tape was coated with the above bath, extd. with a 1:4 H20-1,4-dioxane soln., and heated at 75-80° and 1.8 m tape velocity/min to give a flexible material for separators for batteries. The separators had .apprx 10% wt. loss and .apprx.50 Ω -cm resistivity on sterilization for 60 hr at 135° in 40% KOH (100 Ω -cm resistivity before sterilization). They showed <4 ppm Ag ion diffusion in satd. KOH-Ag salt solns. and ≤4.2 ppm zincate ion diffusion in 40% KOH-40% KOH contg. 40 ppm zincate ion solns.
- IC H01M
- CC 77 (Electrochemistry)
- ST separator secondary battery; polysulfone separator battery; zirconium oxide separator battery
- IT Batteries, secondary

(separators, polysulfone-zirconium oxide-coated polypropylene for silver-zinc)

- IT 1314-20-1, uses and miscellaneous 1314-23-4, uses and miscellaneous 13463-67-7, uses and miscellaneous 18282-10-5 (battery separators contg.)
- IT 25135-51-7

(battery separators contg. Polysulfone P 1700)

- L34 ANSWER 16 OF 18 HCA COPYRIGHT 2004 ACS on STN
- 71:62370 Protective localized area resin coatings for electroplating. Levinos, Steven (GAF Corp.). U.S. US 3451902 19690624, 3 pp. Continuation-in-part of U.S. 3390061 (English). CODEN: USXXAM. APPLICATION: US 1966-562466 19660705.
- AB Continuation-in-part of U.S. 3,390,061 (CA 69: 37217b). An acrylic resin, e.g. Carboset 525, prepd. from 1-20% acrylic acid and 80-99% of a mixt. of acrylates, such as Me, Et, or Bu acrylate, is used as a protective coating on Al sheets when the sheets are coated with Cu or Cr in an electroplating bath. The resin coating prevents deposition of any metal on the resin or on the resin-coated areas of the Al sheet, but the resin is easily removed with an alk. soln.

following electroplating. Known resin coatings permit deposition of some Cu or Cr during electroplating and are difficult to remove from the Al. Thus, an Al plate was dipped in NaOH soln. to remove oxides, coated (5 ml./ft.2) on 1 side with a mixt. of Carboset 525 98, Alkaterge A surfactant (1% in iso-PrOH) 1, and oleic acid wetting agent (2% in iso-PrOH) 1%, dried for 15-20 min., and immersed as the cathode (Cu anode) in an aq. electroplating bath (1 l.) contg. 200 g. CuSO4 and 70 g. H2SO4 at The c.d. was 30 amp./ft.2 After 3 min., a Cu coating had formed on the side of the Al sheet contg. no resin. 85-90°F. resin coating was then washed off with an NH40H soln. (pH 7.8).

C23B IC

204015000 NCL

42 (Coatings, Inks, and Related Products) CC

ANSWER 17 OF 18 HCA COPYRIGHT 2004 ACS on STN Protective localized area resin coatings for electroplating. L34 69:37217 Levinos, Steven (General Aniline and Film Corp.). U.S. US 3390061 19680625, 3 pp. (English). CODEN: USXXAM. APPLICATION: US 1966-543070 19660418.

An oxide-free Al sheet cathode is coated over a localized area with a protective, strongly bonded, acrylic resin film which is AΒ impervious to the acidic electrolyte and can be removed by an alk. soln. after the sheet is plated with Cu or Cr. Thus, an Al plate, rendered oxide-free by dipping in NaOH, was flow coated on one surface, at 5 cc./ft.2, with a mixt. contg. 98 parts of a 0.75% soln. of Carboset 525 in iso-PrOH (I), 1 part of a 1% soln. of Alkaterge A in I, and 1 part of a 2% soln. of oleic acid in I and dried for 15-20 min. The plate acted as a cathode in a plating bath contg. 200 g. CuSO4.5H2O, 70 g. H2SO4, and 1 l. H2O, with a Cu anode, operated at an anode and cathode c.d. of 30 amp./ft.2 at 85-90°F. for 3 min. The Al sheet was rinsed and the resin layer, which was unaffected by the plating soln. or treatment, was removed in 45 sec. by swabbing with a pad dipped in NH4OH soln. at a pH of 7.8. A similar result was obtained using the same resin film and a bath contg. Cu(BF4)2, HBF4, H3B03, and H20, and operated at cathode c.d. 35 amp./ft.2, anode c.d. 30 amp./ft.2 and 85°F. at pH 1.4. The method was used for prepg. photomech. printing plates.

204015000 NCL

42 (Coatings, Inks, and Related Products) CC

Coating materials ΙT

(acrylic polymers and oleic acid, on aluminum cathodes, acid-resistant)

112-80-1, uses and miscellaneous IT (acid resistance of aluminum cathodes coated with acrylic polymers and)

L34 ANSWER 18 OF 18 HCA COPYRIGHT 2004 ACS on STN 67:59633 A new photographic process. Ville, Ivan B. (Eastman Kodak Co.). Fr. FR 1463471 19661223, 6 pp. (French). CODEN: FRXXAK. PRIORITY: US 19650122.

A neg. image with respect to the original is obtained by AB incorporating in the oily phase of the developer before emulsification, ≥ 1 dyes sol. in the oil, or even ≥ 1 solid pigments. After photographic exposure of the photoconducting surface, followed by electrolytic development of the emulsion, the solvent contg. the dye or pigment is deposited on the exposed areas, and a neg. reproduction of the original image is The image thus obtained has a good mech. resistance because of the tendency of the solvent to diffuse into the photoconducting layer as soon as it is deposited on the surface. order to obtain a pos. image with respect to the original, the conducting surface is 1st photographically exposed and then treated with the oily emulsion, contg. neither dye nor pigment. treatment provokes on the photoconducting surface the deposit following an image of a visible or almost visible oily layer, which will act as a stencil in the course of final development designed to obtain the visible image. This treatment makes the exposed areas nonconducting while the nonexposed areas retain their The photoconducting layer is next photoconducting properties. uniformly exposed, and the development is effected by a developer which deposits on the areas still photoconductive a product forming a visible image (e.g., a dye or solid pigment, or a metal), and a pos. reproduction of the original is obtained. E.g., to a 1-1. Waring blender, 50 ml. of distd. H2O and 5 drops of a cationic surface-active agent are added, such as Then there are guickly added, Catanac SP, and mixing is effected. with the mixer kept at medium speed, a soln. of 5 ml. of 1,1,2,2-tetrachloro-1,2-difluoroethane, 0.1 g. of Oil Black BT, and 5 drops of Duomeen S., giving an emulsion of oil in H2O. The emulsion is dild. with distd. H2O so as to obtain proportions of 1:1 and it is placed in the treatment machine. A photoconducting layer consisting of ZnO in a resin binder is placed in contact with a negative and it is exposed under a light of .apprx.5350 lumens. layer is then developed in the photoconducting treatment app. at a speed of about 8 mm./sec. by causing a continuous current of 60 v. to flow between the anode and the exposed layer. emulsion is stirred. This treatment causes the formation of a deposit of the Freon-Oil Black phase of the emulsion in the exposed areas of the layer and a proof whose values are neg. with respect to those of the original. A procedure is also described for the prepn. of a pos. proof with respect to the original.

28984-69-2

ΙT

RN

(npo)

28984-69-2 HCA

CN 4,4(5H)-Oxazoledimethanol, 2-(heptadecenyl)- (9CI) (CA INDEX NAME)

CM 1

CRN 14466-50-3 CMF C22 H43 N O3

$$^{\text{HO-CH}_2}$$
 $^{\text{N}}$ (CH₂)₁₆-Me

IC G03C; G CC 74 (Radiation Chemistry, Photochemistry, and Photographic Processes)

CC 74 (Radiation Chemistry, Photochemistry, and Development ST ZINC OXIDE DEVELOPMENT PROCESS; ELECTROPHOTOG DEVELOPMENT PROCESS; ELECTROPHOTOG; OIL WATER EMULSION ELECTROPHOTOG

1T **28984-69-2** (npo)

=> d 135 1-16 cbib abs hitstr hitind

L35 ANSWER 1 OF 16 HCA COPYRIGHT 2004 ACS on STN

138:224578 Evaluation of three oxazolines as corrosion inhibitors by electrochemical techniques. Rodriguez, Saddys; Abreu, Asela; Cepero, Ana (Dpto. Corrosion, Centro Nacional de Investigaciones Cientificas, Havana, Cuba). Revista CENIC, Ciencias Quimicas, 33(2), 65-70 (Spanish) 2002. CODEN: RCCQER. ISSN: 1015-8553. Publisher: Centro Nacional de Investigaciones Cientificas.

The possible inhibitive effect of three compds. of the 2-oxazoline AΒ family, which were obtained by nonconventional chem. synthesis using microwaves, on corrosion of steel AISI 1020 in atm. conditions was assessed using modern electrochem. techniques (electrochem. impedance, polarization, polarization resistance, and potential vs. time). The compds. studied were: 2-benzyl-4,4-dihydroxymethyl-2oxazoline (I), 2-heptadecenyl-4,4-bis(stearoyloximethyl)-2-oxazoline (II), and 2-heptadecenyl-4,4-dihydroxymethyl-2-oxazoline (III). The oxazolines were dissolved in basic oil at 70°C at different concns. The results showed the ability of that type of oxazoline compds. to adsorb on the metal surface. The oxazoline I dissolved in basic oil at 0.2% (wt./wt.) did not exhibit corrosion inhibitive characteristics. In the case of the oxazoline II at 2% (wt./wt.), a delay of atm. corrosion processes was obsd., whereas for the oxazoline III at concns. higher than 0.75% (wt./wt.), a decreasing steel corrosion rate took place. In the latter case, the action mechanism corresponded to that of a passivator.

14466-50-3 15655-33-1 IT

(evaluation of three oxazolines as corrosion inhibitors by electrochem. techniques)

14466-50-3 HCA RN

4,4(5H)-Oxazoledimethanol, 2-heptadecyl- (9CI) (CA INDEX NAME) CN

$$HO-CH_2$$
 N $(CH_2)_{16}-Me$

15655-33-1 HCA RN

Octadecanoic acid, (2-heptadecyl-4(5H)-oxazolylidene)bis(methylene) CN ester (9CI) (CA INDEX NAME)

Me
$$= (CH_2)_{16} - C - O - CH_2$$

O

(CH₂)₁₆ - Me

(CH₂)₁₆ - Me

55-10 (Ferrous Metals and Alloys) CC

Section cross-reference(s): 72

14466-50-3 15655-33-1 30969-75-6, Oxazoline IT

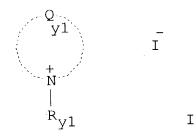
62203-32-1

(evaluation of three oxazolines as corrosion inhibitors by electrochem. techniques)

ANSWER 2 OF 16 HCA COPYRIGHT 2004 ACS on STN

134:134088 Photoelectric converters and photoelectrochemical cells. Ono, Michio (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2001023705 A2 20010126, 35 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1999-194713 19990708.

GΙ



The photoelec. converters, useful as photoelectrochem. cells have a AB layer of fine semiconductor particles contg. adsorbed pigment on a conductive support, an electrolyte layer, and a counter electrode; where the semiconductor particle layer is 2-8 μ m thick, and the **electrolyte** layer contains $\geq 50\%$ of a compd. having I- ions. The compd. is preferably I, where Qy1 = atoms forming a 5- or 6- membered ring cation with the N atom, Ry1 = (substituted) alkyl or alkenyl groups, and the compd. may be a polymer having units connected through Qy1 and/or Ry1.

321742-69-2 ΙT (photoelectrochem cells contg. pigment sensitized titania particle layers and nitrogen contg. heterocyclic iodide electrolytes)

321742-69-2 HCA RN Oxazolium, 3-hexyl-2,4-dimethyl-, iodide (9CI) (CA INDEX NAME) CN

ICM H01M014-00 TC

H01L031-04 ICS

52-2 (Electrochemical, Radiational, and Thermal Energy CCTechnology)

photoelectrochem cell electrolyte heterocyclic ST iodide compd

Photoelectrochemical cells ΙT (photoelectrochem cells contg. pigment sensitized titania particle layers and nitrogen contg. heterocyclic iodide

electrolytes)

65039-05-6 13463-67-7, Titania, uses 10291-06-2 ΙT 1203-83-4 174501-65-6 174899-66-2 80530-93-4 141460-19-7 65065-20-5 233269-27-7 230307-78-5 174899-82-2 186088-50-6 187863-42-9 288627-69-0 288627-94-1 263388-61-0 258279-38-8 321742-71-6 321742-73-8 321742-70-5 321742-69-2 321742-75-0 321742-74-9

(photoelectrochem cells contg. pigment sensitized titania particle layers and nitrogen contg. heterocyclic iodide electrolytes)

ANSWER 3 OF 16 HCA COPYRIGHT 2004 ACS on STN L35

- 133:61826 Evaluation of 2-oxazoline as corrosion inhibitor. Saddys; Abreu y, Asela; Milian, Virgen (Corrosion, Centro Nacional de Investigaciones Cientificas, Ciudad de La Habana, Cuba). CENIC, Ciencias Quimicas, 30(3), 178-181 (Spanish) 1999. CODEN: ISSN: 1015-8553. Publisher: Centro Nacional de RCCOER. Investigaciones Cientificas.
- An study on effectiveness as corrosion inhibitor in atm. conditions ABof the 2-heptadecenyl-4,4-bis(hidroxymethyl)-2-oxazoline obtained by means of non-conventional chem. synthesis, using modern techniques of evaluation of inhibitors, which have not been reported for this kind of compds., was carried out. The method of non-conventional synthesis consisted in the employment of non-traditional energy sources, such as microwaves. This method has several advantages compared to the conventional ones such as: lower times for synthesis, no utilization of solvent, the obtaining of high yield of reaction and the last product free of sludge. For evaluation the 2-heptadecenyl-4,4-bis(hydroxymethyl)-2-oxazoline, was dissolved to several concns. (0.25; 0.5; 0.75; 1.0; 2.0; 5.0 %), in basic oil of viscosity 20 s·cm-1 to 70 °C. These concns. were taken keeping in mind that this substance, to 100 ppm in mineral oil, offers high effectiveness. AISI-1020 steel and electrolytic iron 99.99% pure were used. Several test methods were used: accelerated (neutral salt spray chamber, SO2 atmosphere, salinity immersion, heat-humidity chamber) and electrochem. (polarization curves and polarization resistance). results defined the 2-heptadecenyl-4,4-bis(hidroxymethyl)-2oxazoline obtained by means of no conventional chem. synthesis, as corrosion inhibitor of iron and its alloys dissolved in basic oil. An adjustment of the better concns. for their employment as corrosion inhibitor was also made.

28984-69-2 IT

(2-heptadecenyl-4,4-bis(hydroxymethyl)-2-oxazoline as atm. corrosion inhibitor for steel and iron)

28984-69-2 HCA RN

4,4(5H)-Oxazoledimethanol, 2-(heptadecenyl)- (9CI) (CA INDEX NAME) CN

CM 1

CRN 14466-50-3 CMF C22 H43 N O3

$$^{\text{HO}-\text{CH}_2}$$
 $^{\text{N}}$ $^{\text{(CH}_2)_{16}-\text{Me}}$

CC 55-10 (Ferrous Metals and Alloys)

IT 7439-89-6, Iron, processes 12725-36-9, processes

28984-69-2

(2-heptadecenyl-4,4-bis(hydroxymethyl)-2-oxazoline as atm. corrosion inhibitor for steel and iron)

L35 ANSWER 4 OF 16 HCA COPYRIGHT 2004 ACS on STN

133:4611 Electrosynthesis of cyclic carbamates from aziridines and carbon dioxide. Tascedda, Patricia; Dunach, Elisabet (Lab. Chim. Bioorg., Associe CNRS, Universite de Nice-Sophia Antipolis, Nice, 06108, Fr.). Chemical Communications (Cambridge) (6), 449-450 (English) 2000. CODEN: CHCOFS. ISSN: 1359-7345. OTHER SOURCES: CASREACT 133:4611. Publisher: Royal Society of Chemistry.

GΙ

AB A new and selective synthesis of five-membered ring cyclic carbamates (I, II; R = Et, octyl, Ph, BuOCH2; R1 = BOC, H) involving nickel-catalyzed CO2 incorporation into aziridines under mild electrochem. conditions was carried out in good yields.

IT 270063-89-3P 270063-93-9P

(electrosynthesis of cyclic carbamates from aziridines and carbon dioxide)

RN 270063-89-3 HCA

CN 3-Oxazolidinecarboxylic acid, 4-octyl-2-oxo-, 1,1-dimethylethyl

ester (9CI) (CA INDEX NAME)

270063-93-9 HCA RN

3-Oxazolidinecarboxylic acid, 5-octyl-2-oxo-, 1,1-dimethylethyl CNester (9CI) (CA INDEX NAME)

28-6 (Heterocyclic Compounds (More Than One Hetero Atom)) CC

Section cross-reference(s): 72

270063-88-2P 113525-79**-**4P 7480-32-2P 7693-77-8P TT

270063-90-6P 270063-91-7P 270063-92-8P 270063-89-3P

270063-94-0P 270063-93-9P

(electrosynthesis of cyclic carbamates from aziridines and carbon dioxide)

L35 ANSWER 5 OF 16 HCA COPYRIGHT 2004 ACS on STN

132:253557 Electrolytes and photoelectrochemical cells Takisawa, Hiroo (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai

Tokkyo Koho JP 2000100485 A2 20000407, 41 pp. (Japanese). CODEN:

JKXXAF. APPLICATION: JP 1998-285947 19980922.

GΙ

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT
- The electrolytes contain a non-crosslinked polymer of ΑB

formula: -[CH2CR1(D)dR2]a[CH2CR3(E)eR4]b(A)c-, in which R1 and R3 = H, alkyl, or aryl groups, R2 = substituent contg. quaternary salt of N-contg. heterocyclic ring or quaternary ammonium salt, R4 = substituent contg. N contg. heterocyclic ring or tertiary amine group, D and E are connection groups, d and e are 0 or 1, A = repeating units contg. ethylenic unsatn. group, a, b, and c are wt compns. of the resp. repeating units and equal to 1-100, 0-99, and 0-80%, resp. The electrolytes may also contain I (Z1 forms a 5- or 6-membered ring cation with N, R51 = alkyl or alkenyl group, f = 1 or 3), esp. II (R52 = substituent, g = 0-5) and III (G = 0, S, or -NR54, R54 = substituent, R 53 = substituent, c = 0-3). The photoelectrochem. cells have a charge transferring layer contg. the above electrolyte, an illumination sensitive semiconductor, and a counter electrode.

258273-68-6 ΙT

(electrolytes contg. non-crosslinked polymers for photoelectrochem. cells)

258273-68-6 HCA RN

Oxazolium, 2,4-dimethyl-3-octyl-, iodide (9CI) (CA INDEX NAME) CN

ICM H01M014-00 IC ICS C08F008-44; C08F026-06; H01L031-04

52-2 (Electrochemical, Radiational, and Thermal Energy CC Technology)

photoelectrochem cell electrolyte noncrosslinked ST ethylenic polymer

Electrolytes IT

Photoelectrochemical cells

(electrolytes contg. non-crosslinked polymers for

photoelectrochem. cells) 10377-51-2, Lithium 311-28-4, Tetrabutylammonium iodide 874-81-7 ΙT 27029-44-3 32353-64-3 60300-54-1 65039-05-6 iodide 258273-67-5 **258273-68-6** 204854-22-8

178631-05-5 262424-66-8 262424-62-4 262424-60-2 258279-38-8 258279-35-5 262424-76-0 262424-78-2 262424-74-8 262424-72-6 262424-69-1

(electrolytes contg. non-crosslinked polymers for

photoelectrochem. cells)

GI

L35 ANSWER 6 OF 16 HCA COPYRIGHT 2004 ACS on STN

132:154402 Organic electrolyte for a photoelectrochemical cell. Takizawa, Hiroo; Shiratsuchi, Kentaro (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 980082 A2 20000216, 55 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO. (English). CODEN: EPXXDW. APPLICATION: EP 1999-115684 19990809. PRIORITY: JP 1998-239482 19980811; JP 1998-239483 19980811.

 I_{n}^{-} I_{n}^{-}

An electrolyte contg. a 5- or 6-membered nitrogen-contg. AB. arom. ring compd. having a specific structure represented by formula (I) or (II) and a photoelectrochem. cell having the electrolyte are disclosed. The electrolyte hardly volatilizes and performs an excellent charge transport function to provide a photoelectrochem. cell having excellent photoelec. characteristics and durability. In I, Z represents an at. group necessary to form a 5-membered arom. ring cation together with the nitrogen atom and E; E represents an oxygen atom or a sulfur atom; R1 represents an alkyl group or an alkenyl group; R2 represents a hydrogen atom or a substituent; and n represents 1 or 3. In II, Z' represents an at. group necessary to form a 6-membered arom. ring cation together with the nitrogen atom; R1' represents an alkyl group or an alkenyl group; and a' represents 1 or 3. ΙΤ

258273-68-6 258279-13-9 (org. electrolyte for photoelectrochem. cell)

RN 258273-68-6 HCA CN Oxazolium, 2,4-dimethyl-3-octyl-, iodide (9CI) (CA INDEX NAME)

$$(CH_2)$$
 7 - Me N^+ Me N^+ Me

• I -

RN 258279-13-9 HCA CN Oxazolium, 3-dodecyl-2,4-dimethyl-, iodide (9CI) (CA INDEX NAME)

• I -

IC ICM H01G009-20 ICS H01M006-16; H01M010-40

CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)

Section cross-reference(s): 38

photoelectrochem cell org electrolyte; dye sensitized semiconductor photoelectrochem cell; solar photoelectrochem cell org electrolyte

IT Electrolytes

Photoelectrochemical cells

(org. electrolyte for photoelectrochem. cell)

IT 12243-46-8 80530-93-4 99837-92-0 110067-66-8 141460-19-7 171119-27-0 219727-04-5 220870-47-3 230307-80-9 233269-24-4 258280-43-2

(dye; org. electrolyte for photoelectrochem.

cell)

IT 874-81-7 10291-06-2 13463-67-7, Titania, uses 53242-40-3 70845-49-7 258273-67-5 258279-26-4 258279-32-2 258279-35-5 258279-38-8 258279-41-3 258279-44-6 258279-47-9 (org. electrolyte for photoelectrochem. cell)

IT **258273-68-6** 258279-09-3 258279-11-7 **258279-13-9** 258279-17-3 258279-22-0

(org. electrolyte for photoelectrochem. cell)

- TT 75-05-8, Acetonitrile, uses 4743-28-6 10123-62-3 19836-78-3 (solvent; org. electrolyte for photoelectrochem. cell)
- L35 ANSWER 7 OF 16 HCA COPYRIGHT 2004 ACS on STN

130:299385 Lithium batteries and their manufacture.

Kurematsu Kazuhiko (Japan). Jpn. Kokai Tokkvo Koho JP

Kurematsu, Kazuhiko (Japan). Jpn. Kokai Tokkyo Koho JP 11121038 A2 19990430 Heisei, 8 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1997-303685 19971017.

The batteries have an ultrafine microporous polyolefin film, whose surface is modified by dipping in a 0.01-10% polymer electrolyte soln. for 0.5-3 h. The films are preferably used as separators in the batteries. The batteries are prepd. by surface modifying the microporous film with the polymer electrolyte soln.

IT 10431-84-2

(in manuf. of ultrafine porous polyolefin separators with poly(ethylene oxide) treated surface for secondary lithium batteries)

RN 10431-84-2 HCA

CN Oxazole, 4,5-dihydro-2-undecyl- (9CI) (CA INDEX NAME)

$$(CH_2)_{10} - Me$$

IC ICM H01M010-40

ICS H01M010-40; H01M002-16; H01M006-18; H01M006-22

CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)

ST lithium battery separator polymer electrolyte polyolefin

IT Secondary battery separators

(ultrafine porous polyolefin separators with poly(ethylene oxide) treated surface for secondary lithium **batteries**)

IT Polyoxyalkylenes, uses

(ultrafine porous polyolefin separators with poly(ethylene oxide) treated surface for secondary lithium batteries)

IT 10431-84-2 28118-26-5, γ -Aminopropoxy

triethoxysilane

(in manuf. of ultrafine porous polyolefin separators with poly(ethylene oxide) treated surface for secondary lithium batteries)

IT 9003-07-0, Polypropylene

(ultrafine porous polyolefin separators with poly(ethylene oxide) treated surface for secondary lithium batteries)

25322-68-3, Poly(ethylene oxide) ΙT

(ultrafine porous polyolefin separators with poly(ethylene oxide) treated surface for secondary lithium batteries)

ANSWER 8 OF 16 HCA COPYRIGHT 2004 ACS on STN L35

120:269878 On the syntheses of branched saturated fatty acids. Gronowitz, Salo; Klingstedt, Tomas; Svensson, Leif; Hansson, Ulf (Chem. Cent., Univ. Lund, Lund, Swed.). Lipids, 28(10), 889-97 ISSN: 0024-4201. OTHER SOURCES: (English) 1993. CODEN: LPDSAP. CASREACT 120:269878.

- To investigate the relation between the structure of mono-branched AB satd. fatty acids and their phys. properties, a three-factor central composite design was constructed. Sixteen different fatty acids were prepd., generally from a few common starting materials. alkylation and hydrolysis of oxazolines were used for the prepn. of 2-butylhexanoic acid, 2-methyloctadecanoic acid, 2-hexadecyloctadecanoic acid and 2-pentyloctadecanoic acid. acids were prepd. from thiophene derivs. followed by desulfurization with Raney-Nickel alloy under alk. conditions. Thus, starting from 3-ethylthiophene, 4-ethyl-2-thiophenecarboxylic acid and 4-ethyl-2-methyl-5-thiophenecarboxylic acid were prepd., which upon desulfurization gave the desired 4-methylhexanoic acid. 3-Bromo-2-methylthiophene gave 3-ethyl-2-methyl-5thiophenecarboxylic acid via 3-acetyl-2-methylthiophene and 3-ethyl-2-methylthiophene. Desulfurization gave 4-ethylhexanoic Treating 2-acylthiophenes with Grignard reagents gave the appropriate olefins, whose metalation and reaction with carbon dioxide gave the corresponding 2-thiophenecarboxylic acids.. method gave 6-propyldecanoic acid, 6-hexyldodecanoic acid, 6-methyldodecanoic acid and 6-pentylpentadecanoic acid. remaining four acids were prepd. from some of the branched acids described above through Kolbe reactions of dioic acids. 16-methyloctadecanoic acid and 10-methyldodecanoic acid were obtained from 4-methylhexanoic acid, 16-ethyloctadecanoic acid from 4-ethylhexanoic acid and 9-pentyloctadecanoic acid from 6-pentylpentadecanoic acid.
- 89547-13-7P 122055-61-2P 154828-59-8P ΙΤ 154828-60-1P 154828-61-2P 154828-62-3P

(prepn. and conversion of, to branched satd. fatty acids)

RN89547-13-7

Oxazole, 2-(1-hexadecylheptadecyl)-4,5-dihydro-4,4-dimethyl- (9CI) CN (CA INDEX NAME)

Me
$$(CH_2)_{15}$$
-Me $(CH_2)_{15}$ -Me $(CH_2)_{15}$ -Me $(CH_2)_{15}$ -Me $(CH_2)_{15}$ -Me

RN 122055-61-2 HCA CN Oxazole, 2-hexadecyl-4,5-dihydro-4,4-dimethyl- (9CI) (CA INDEX NAME)

Me
$$^{\text{N}}$$
 (CH₂)₁₅-Me

RN 154828-59-8 HCA CN Oxazole, 4,5-dihydro-4,4-dimethyl-2-(1-methylpentyl)- (9CI) (CA INDEX NAME)

RN 154828-60-1 HCA CN Oxazole, 2-(1-butylpentyl)-4,5-dihydro-4,4-dimethyl- (9CI) (CA INDEX NAME)

RN 154828-61-2 HCA CN Oxazole, 4,5-dihydro-4,4-dimethyl-2-(1-methylheptadecyl)- (9CI) (CA INDEX NAME)

Me
$$|$$
 CH- (CH₂) $_{15}$ -Me $|$ Me

RN 154828-62-3 HCA CN Oxazole, 4,5-dihydro-4,4-dimethyl-2-(1-pentylundecyl)- (9CI) (CA INDEX NAME)

Me N
$$CH-(CH_2)$$
 $9-Me$
Me O

CC 26-3 (Biomolecules and Their Synthetic Analogs)

IT Fatty acids, preparation (satd., branched, prepn. of, via oxazolines, thiophenes, and Kolbe electrolysis of dioic acids)

1501-27-5, Pentanedioic acid monomethyl ester 14113-01-0, Octanedioic acid monoethyl ester 50515-99-6, Tetradecanedioic acid monomethyl ester

(electrolysis of, in prepn. of branched satd. fatty acids)

5146-88-3P 55011-28-4P 74090-21-4P **89547-13-7P**

122055-61-2P 154828-59-8P 154828-60-1P

154828-61-2P 154828-62-3P (prepn. and conversion of, to branched satd. fatty acids)

L35 ANSWER 9 OF 16 HCA COPYRIGHT 2004 ACS on STN
119:56813 Transmembrane potential of artificial vesicles. Vesicle
fragmentation. Encapsulation. Faure, J.; Pansu, R.; Roncin, J.;
Liu, L. (Univ. Paris Sud, Orsay, F-91405, Fr.). Electron Spin
Reson. (ESR) Appl. Org. Bioorg. Mater., Proc. Eur. Meet., 1st,
Meeting Date 1990, 69-75. Editor(s): Catoire, B. Springer: Berlin,
Germany. (French) 1992. CODEN: 58ZTAV.

The membrane potential was studied for dioctadecyldimethylammonium chloride and dihexadecyl phosphate vesicles prepd. by sonication by using a rotating Pt electrode. The behavior of the fragments produced by sonication was monitored by using nitroxide luminescent probes. The membrane fragments apparently take part in a cooperative phase transition; eventually, a population of monodisperse vesicles appears.

IT 29545-48-0

IT

(luminescent probe, in vesicle fragmentation study)

29545-48-0 HCA RN

3-Oxazolidinyloxy, 2-(3-carboxypropyl)-4,4-dimethyl-2-tridecyl-CN (8CI, 9CI) (CA INDEX NAME)

Me
$$(CH_2)_3 - CO_2H$$
Me $(CH_2)_{12} - Me$

66-2 (Surface Chemistry and Colloids) CC Section cross-reference(s): 6, 72

72185-36-5 **29545-48-0** 53034-38-1 ΙT (luminescent probe, in vesicle fragmentation study)

ANSWER 10 OF 16 HCA COPYRIGHT 2004 ACS on STN L35

118:72860 Polarographic determination of N-oxides of 2-substituted 3-alkyl-5-chloromethyloxazolidines. Konigstein, J.; Steiner, B. (Inst. Chem., Slovak Acad. Sci., Bratislava, CS-842 38, Czech.). Chemical Papers, 46(1), 28-30 (English) 1992. CODEN: CHPAEG. ISSN: 0366-6352.

A set of selected amine oxides of 2-substituted 3-alkyl-5-AΒ chloromethyloxazolidines was studied by d.c. polarog. Cathodic waves corresponding to their two-electron polarog. redn. to the initial oxazolidines were followed. Detns. were in aq. medium using Britton-Robinson buffers at pH 8 in the concn. range 0.01-1.00 mmol dm-3 of amine oxides. They were controlled by acidimetric potentiometric titrns. The method is suitable for detn. of the functional anal. group of amine oxides of oxazolidines with an alkyl in the 3- position. Observation of the course of amine oxides syntheses by oxidn. of oxazolidines with H202 is enabled. Hydrogen peroxide and formed addn. products are polarog. sepd. and determinable.

119086-49-6 119086-50-9 130787-54-1 ΙΤ 130787-57-4 130787-62-1 130787-63-2 131716-55-7 145690-59-1 145690-60-4

(detn. of, by polarog.)

119086-49-6 HCA RN

Oxazolidine, 5-(chloromethyl)-3-dodecyl-2-phenyl-, 3-oxide (9CI) CN(CA INDEX NAME)

RN 119086-50-9 HCA CN Phenol, 2-[5-(chloromethyl)-3-dodecyl-3-oxido-2-oxazolidinyl]- (9CI) (CA INDEX NAME)

RN 130787-54-1 HCA CN Oxazolidine, 5-(chloromethyl)-3-hexyl-2,2-dimethyl-, 3-oxide (9CI) (CA INDEX NAME)

$$Me^{-(CH_2)} = 0$$
 $Me^{-(CH_2)} = 0$
 $Me^{-(CH_2)} = 0$
 $Me^{-(CH_2)} = 0$
 $Me^{-(CH_2)} = 0$
 $Me^{-(CH_2)} = 0$

RN 130787-57-4 HCA CN Oxazolidine, 5-(chloromethyl)-3-dodecyl-2,2-dimethyl-, 3-oxide (9CI) (CA INDEX NAME)

130787-62-1 **HCA** RN

2-Propanone, 1-[5-(chloromethyl)-3-dodecyl-2-methyl-3-oxido-2-CNoxazolidinyl]- (9CI) (CA INDEX NAME)

130787-63-2 HCA RN

Oxazolidine, 5-(chloromethyl)-2-(dimethoxymethyl)-3-dodecyl-2-methyl-CN , 3-oxide (9CI) (CA INDEX NAME)

131716-55-7 HCA RN

Oxazolidine, 5-(chloromethyl)-2,2-dimethyl-3-octadecyl-, 3-oxide CN(9CI) (CA INDEX NAME)

$$Me^{-(CH_2)}17$$
 O Me^{-N} Me^{-CH_2C1}

145690-59-1 HCA RN

Oxazolidine, 5-(chloromethyl)-3-dodecyl-2-(2-furanyl)-, 3-oxide CN (9CI) (CA INDEX NAME)

RN 145690-60-4 HCA CN Oxazolidine, 5-(chloromethyl)-3-dodecyl-2-methyl-2-phenyl-, 3-oxide (9CI) (CA INDEX NAME)

Me-
$$(CH_2)$$
 11 O

Me
O
Ph

CH2C1

GΙ

CC 80-6 (Organic Analytical Chemistry)
Section cross-reference(s): 28, 72

IT 119086-49-6 119086-50-9 130787-54-1
130787-57-4 130787-62-1 130787-63-2
131716-55-7 145690-59-1 145690-60-4
(detn. of, by polarog.)

L35 ANSWER 11 OF 16 HCA COPYRIGHT 2004 ACS on STN

116:29973 Langmuir-Blodgett films of doxylstearic acids: cyclic
voltammetry. Richardson, T.; Roberts, G. G.; Barghout, R.; Compton,
R. G.; Riley, D. J. (Dep. Eng. Sci., Oxford Univ., Oxford, OX1 3PJ,
UK). Electroanalysis, 3(8), 757-62 (English) 1991. CODEN: ELANEU.
ISSN: 1040-0397.

Me (CH₂)
$$_{16-n}$$
CH₂ CH₂ (CH₂) $_{n-3}$ CO₂H

Ι

- The electrochem. oxidn. of Langmuir-Blodgett films of n-doxylstearates (I, n = 5, 7, 12, 16; present as their cadmium salts) on indium tin oxide **electrodes** was studied. The n = 12 species gives cyclic voltammograms (CVs) that reveal split peaks consistent with the formation of an ordered partially oxidized layer with a structure controlled by interactions of longer range than nearest neighbor.
- IT 29545-48-0 40951-82-4 (oxidn. of Langmuir-Blodgett films of, electrochem., on indium tin oxide in sodium sulfate soln.)
- RN 29545-48-0 HCA CN 3-Oxazolidinyloxy, 2-(3-carboxypropyl)-4,4-dimethyl-2-tridecyl-(8CI, 9CI) (CA INDEX NAME)

Me
$$N$$
 (CH₂)₃-CO₂H .

RN 40951-82-4 HCA CN 3-Oxazolidinyloxy, 2-(5-carboxypentyl)-4,4-dimethyl-2-undecyl- (9CI) (CA INDEX NAME)

Me
$$\stackrel{O}{\mid}$$
 (CH₂)₅-CO₂H Me $\stackrel{Me}{\mid}$ (CH₂)₁₀-Me

- 29545-47-9
 (oxidn. of Langmuir-Blodgett films of, on indium tin oxide in sodium sulfate soln., order in relation to)
- RN 29545-47-9 HCA CN 3-Oxazolidinyloxy, 2-(10-carboxydecyl)-2-hexyl-4,4-dimethyl- (8CI, 9CI) (CA INDEX NAME)

Me
$$\stackrel{O}{\mid}$$
 (CH₂)₅-Me $\stackrel{Me}{\mid}$ (CH₂)₁₀-CO₂H

CC 72-2 (Electrochemistry)
Section cross-reference(s): 66, 78

IT Molecular orientation

(of doxylstearate on indium tin oxide electrode)

IT 50926-11-9, Indium tin oxide

(electrode, oxidn. of doxylstearate Langmuir-Blodgett films on, in sodium sulfate soln., order in relation to)

IT 29545-48-0 40951-82-4 53034-38-1

(oxidn. of Langmuir-Blodgett films of, electrochem., on indium tin oxide in sodium sulfate soln.)

IT 29545-47-9

(oxidn. of Langmuir-Blodgett films of, on indium tin oxide in sodium sulfate soln., order in relation to)

L35 ANSWER 12 OF 16 HCA COPYRIGHT 2004 ACS on STN

L35 ANSWER 12 OF 16 HCA COPIRIGHT 2004 Acts of the control of the composition of the comp

The quality of emulsion explosive compns. comprising a discontinuous AΒ phase having an O-supplying component and an org. medium forming a continuous phase is improved by a manufg. process and app. in which a predetd. range of acceptable values for an elec. characteristic (e.g., elec. cond. or capacitance) of the explosive is established, the selected property is detd., and, in response to measured properties outside of the range, the unacceptable compn. is diverted or modified to fall within the preferred range. A mixt. of 78.7 NH4NO3 and 16.0 parts water, heated to 85°, was rapidly stirred into a soln. of 1.5 sorbitan monooleate and 3.8 parts paraffin oil. The elec. capacitance of emulsion samples was detd. in a closed flat cell comprising a pair of stainless steel electrodes (each with surface area 10 cm2) spaced 3 mm The capacitance, which was correlated with the emulsion droplet size, was a better means of quality control than optical microscopic examn. Compns. with decreased emulsion droplet size generally have increased sensitivity and improved storage stability.

IT 28984-69-2 (explosives contg., quality control in manuf. of emulsion, elec.

property detn. and correlation for)

28984-69-2 HCA RN

4,4(5H)-Oxazoledimethanol, 2-(heptadecenyl)- (9CI) (CA INDEX NAME) CN

CM

14466-50-3 CRN C22 H43 N O3 CMF

HO-CH₂

ICM C06B045-00 IC

50-2 (Propellants and Explosives) CC

108-30-5D, polyisobutenyl derivs., polymers with ethanolamine IT 141-43-5D, polymers with polyisobutenylsuccinic anhydride 1338-43-8, Sorbitan monooleate 6484-52-2, Ammonium nitrate, uses and miscellaneous 28984-69-2 (explosives contg., quality control in manuf. of emulsion, elec. property detn. and correlation for)

ANSWER 13 OF 16 HCA COPYRIGHT 2004 ACS on STN

97:52035 Microenvironmental effects on transition energies and effective polarities of nitroxides solubilized in micelles of different charge types and the effect of electrolytes on the visible spectra of nitroxides in aqueous solutions. Ramachandran, C.; Pyter, Richard A.; Mukerjee, Pasupati (Sch. Pharm., Univ. Wisconsin, Madison, WI, 53706, USA). Journal of Physical Chemistry, 86(16), 3198-205 (English) 1982. CODEN: JPCHAX. ISSN: 0022-3654.

Exptl. results on nitroxides in micellar solns. are presented, and AB some methods of interpretation of such results are described which should be generally applicable to spectroscopic probe studies. data indicate that the addn. of inorg. electrolytes increases the energy of transition (ET) value of 2,2,6,6-tetramethylpiperidinyl-1-oxy (TEMPO) in water. increase in apparent polarity is attributed to a cation effect causing increased H bonding through the electrostatic influence of cations on the surrounding water mols. A spectral parameter based on the ratio of absorbances at 2 fixed wavelengths can be used to assess the av. polarities of the microenvironments of nitroxides solubilized in micelles, but appropriate corrections must be made for micelle-water distributions of the nitroxides. Based on the dielec. consts. of the ref. solvents as medium polarity parameters, the microenvironmental polarity in the solubilized state is expressed as an effective dielec. const., Deff. The corresponding

changes in ET from aq. solns. to the solubilized state (ΔET) The Deff and ΔET values of were in the range of 2-3 kcal/mol. TEMPO indicate that its microenvironments in the micelle are moderately polar. The results are consistent with a predominant location of TEMPO at the micelle-water interface. The Deff values of interfacially located TEMPO are roughly midway between the values of water and dodecane in all of the micellar systems. Electrostatic image interactions of the nitroxide dipoles at the interface caused by the proximity of the hydrocarbon cores provide a qual. explanation of the general finding. Further anal. indicates that the image interactions on the H-bonded nitroxide complex may be important and that the net effect of H bonding interactions may be significantly weaker at interfaces when compared to bulk water. Deff and ΔET values in different micellar systems of different charge types vary over a small range, consistent with the effects expected from field strengths on the order of 2 + 106 V/cm in the interface region of ionic micelles, with some addnl. effects due to cations at the surface of anionic micelles. A micelle with zwitterionic head groups similarly shows the effect of the expected dipole field at the interface. For palmitoyllysolecithin, the effect of the zwitterionic moiety appears to be small because of its distance from the hydrocarbon core. Solubilized 4-oxo-2,2,6,6-tetramethylpiperidinyl-1-oxy and 2 long-chain stearic acid derivs. contg. a nitroxide moiety at different positions along the alkyl chain indicate Deff values similar to those of TEMPO in 2 micellar systems. A quaternary ammonium nitroxide deriv., however, shows a significantly lower Deff value in anionic micelles. These data were interpreted in terms of interfacial locations of the nitroxides involving different orientations in some cases.

29545-48-0 ΤT

CN

(in micelles and aq. solns., microenvironmental and electrolyte effects on properties of)

29545-48-0 HCA RN

3-Oxazolidinyloxy, 2-(3-carboxypropyl)-4,4-dimethyl-2-tridecyl-(8CI, 9CI) (CA INDEX NAME)

Me
$$(CH_2)_3 - CO_2H$$
Me $(CH_2)_{12} - Me$

9-5 (Biochemical Methods) CC

Section cross-reference(s): 6 nitroxide property micelle aq soln; transition energy nitroxide STmicelle; polarity nitroxide micelle; visible spectra nitroxide

electrolyte

Nitroxides ΙT

(in micelles and aq. solns., microenvironmental and electrolytes effects on properties of)

Anions ΙT

Cations

Electrolytes

(nitroxide properties in aq. solns. response to)

Ultraviolet and visible spectra IT

(of nitroxides, electrolytes effect on)

64525-01-5 53034-38-1 2896-70-0 **29545-48-0** 2564-83-2 ΙΤ (in micelles and aq. solns., microenvironmental and

electrolyte effects on properties of)

ANSWER 14 OF 16 HCA COPYRIGHT 2004 ACS on STN

Electron spin resonance studies on the lipoxygenase reaction by 88:46911 spin trapping and spin labeling methods. Aoshima, Hitoshi; Kajiwara, Tadahiko; Hatanaka, Akikazu; Hatano, Hiroyuki (Fac. Lib. Arts, Yamaguchi Univ., Yamaguchi, Japan). Journal of Biochemistry (Tokyo, Japan), 82(6), 1559-65 (English) 1977. CODEN: JOBIAO. ISSN: 0021-924X.

The rate of oxygenation and that of trapping linoleic acid (I) free AΒ radicals in the lipoxygenase (II) reaction were measured in the presence of I, O, and nitrosobenzene (III) at various concns., with a Clark O electrode and ESR spectroscopy. The results were interpreted under the assumption that the free radical of I, an intermediate of the II reaction, reacts competitively with O or III. The oxidn. of the Fe in the active site of II caused by the spin label reagent, 2-(10-carboxydecyl)-2-hexyl-4,4-dimethyl-3oxazolidinyloxyl, was also obsd. by ESR and fluorescence spectroscopy.

29545-47-9 ΙT

(lipoxygenase spin labeling with)

29545-47-9 HCA RN

3-Oxazolidinyloxy, 2-(10-carboxydecyl)-2-hexyl-4,4-dimethyl- (8CI, CN9CI) (CA INDEX NAME)

Me
$$(CH_2)_5-Me$$
Me $(CH_2)_{10}-CO_2H$

7-4 (Enzymes) CC

29545-47-9 ΙT

(lipoxygenase spin labeling with)

ANSWER 15 OF 16 HCA COPYRIGHT 2004 ACS on STN 67:35496 Protection of steel sheets against rust. Shimada, Shoji (Yawata Iron and Steel Co., Ltd.). Fr. FR 1454489 19661007, 4 pp. (French). CODEN: FRXXAK. APPLICATION: FR 19650824.

Steel sheets used as bases in hot or electrolytic plating operations are protected against rust by applying 0.5-5 g./base box AΒ of a thin film comprising at least one aliphatic or alicyclic primary and secondary amines, alkyl imidazolines, alkyl imidazoles, alkyl oxazolines, and alkyl oxazoles contg. <20 C atoms. Thus, a base for Sn electrolytic plating was coated by spraying with 1-30 g./base box of 2-undecylimidazole maintained at 60° and was then coiled. The treated steel sheet did not rust after being stored in the usual manner for 8 months. The steel sheet was submitted to an electrolytic plating without any plating defects.

29249-56-7 IT

(corrosion prevention by, of steel sheet for tin electrodeposition)

29249-56-7 HCA RN

Oxazoline, 2-(2-ethylpentyl)- (8CI) (CA INDEX NAME) CN

CM

CRN 46119-09-9 CMF C10 H21 N O

IC

55 (Ferrous Metals and Alloys) CC

16731-68-3 **29249-56-7** 101-83-7 124-22-1 10443-61-5 ΙT

29249-57-8

(corrosion prevention by, of steel sheet for tin electrodeposition)

ANSWER 16 OF 16 HCA COPYRIGHT 2004 ACS on STN 56:3138 Original Reference No. 56:639d-e Motor-fuel additive. (Standard Oil Co.). GB 846231 19590112 (Unavailable). PRIORITY: US 19580226.

The addn. of substituted oxazolines, such as 2-heptadecenyl-4,4-AB bis(hydroxymethyl)oxazoline, to gasoline reduces surface ignition and carburetor fouling and icing.

28984-69-2, 2-Oxazoline-4, 4-dimethanol, 2-(heptadecenyl)-ΙT

(as gasoline additive)

RN 28984-69-2 HCA

CN 4,4(5H)-Oxazoledimethanol, 2-(heptadecenyl)- (9CI) (CA INDEX NAME)

CM 1

CRN 14466-50-3 CMF C22 H43 N O3

$$N - CH_2$$
 N (CH₂)₁₆-Me

CC 52 (Petroleum and Petroleum Derivatives)
IT 28984-69-2, 2-Oxazoline-4,4-dimethanol, 2-(heptadecenyl)(as gasoline additive)